

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 09/512,5810
Source: 1Fw16
Date Processed by STIC: 1/4/05

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 09/512,5810

CRF Edit Date: 1/4/05
Edited by: [Signature]

___ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

___ Corrected the SEQ ID NO. Sequence numbers edited were:

___ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

___ Deleted: / invalid beginning/end-of-file text ; / page numbers

___ Inserted mandatory headings/numeric identifiers, specifically:

___ Moved responses to same line as heading/numeric identifier, specifically:

___ Other:



IFW16

RAW SEQUENCE LISTING

DATE: 01/04/2005

PATENT APPLICATION: US/09/512,581D

TIME: 17:45:24

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01042005\I512581D.raw

3 <110> APPLICANT: Soto, Ana M.
4 Sonnenschein, Carlos
5 Geck, Peter
6 Szelei, Jozsef
8 <120> TITLE OF INVENTION: NOVEL ANDROGEN-INDUCED SUPPRESSOR OF CELL PROLIFERATION AND
USES
9 THEREOF
11 <130> FILE REFERENCE: 34724-026
13 <140> CURRENT APPLICATION NUMBER: US 09/512,581D
14 <141> CURRENT FILING DATE: 2000-02-24
16 <150> PRIOR APPLICATION NUMBER: US 60/121,461
17 <151> PRIOR FILING DATE: 1999-02-24
19 <160> NUMBER OF SEQ ID NOS: 72
21 <170> SOFTWARE: PatentIn version 3.3
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 5271
25 <212> TYPE: DNA
26 <213> ORGANISM: Homo sapiens
28 <220> FEATURE:
29 <221> NAME/KEY: CDS
30 <222> LOCATION: (66)..(4238)
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35 ctgtc atg gct cat tca aag act agg acc aat gat gga aaa att aca tat 110
36 Met Ala His Ser Lys Thr Arg Thr Asn Asp Gly Lys Ile Thr Tyr
37 1 5 10 15
39 ccg cct ggg gtc aag gaa ata tca gat aaa ata tct aaa gag gag atg 158
40 Pro Pro Gly Val Lys Glu Ile Ser Asp Lys Ile Ser Lys Glu Glu Met
41 20 25 30
43 gtg aga cga tta aag atg gtt gtg aaa act ttt atg gat atg gac cag 206
44 Val Arg Arg Leu Lys Met Val Val Lys Thr Phe Met Asp Met Asp Gln
45 35 40 45
47 gac tct gaa gaa gaa aag gag ctt tat tta aac cta gct tta cat ctt 254
48 Asp Ser Glu Glu Glu Lys Glu Leu Tyr Leu Asn Leu Ala Leu His Leu
49 50 55 60
51 gct tca gat ttt ttt ctc aag cat cct ggt aaa gat gtt cgc tta ctg 302
52 Ala Ser Asp Phe Phe Leu Lys His Pro Gly Lys Asp Val Arg Leu Leu
53 65 70 75
55 gta gcc tgc tgc ctt gct gat att ttc agg att tat gct cct gaa gct 350
56 Val Ala Cys Cys Leu Ala Asp Ile Phe Arg Ile Tyr Ala Pro Glu Ala
57 80 85 90 95
59 cct tac aca tcc cct gat aaa cta aag gat ata ttt atg ttt ata aca 398
60 Pro Tyr Thr Ser Pro Asp Lys Leu Lys Asp Ile Phe Met Phe Ile Thr
61 100 105 110

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63 aga cag ttg aag ggg cta gag gat aca aag agc cca caa ttc aat agg 446
64 Arg Gln Leu Lys Gly Leu Glu Asp Thr Lys Ser Pro Gln Phe Asn Arg
65 115 120 125
67 tat ttt tat tta ctt gag aac att gct tgg gtc aag tca tat aac ata 494
68 Tyr Phe Tyr Leu Leu Glu Asn Ile Ala Trp Val Lys Ser Tyr Asn Ile
69 130 135 140
71 tgc ttt gag tta gaa gat agc aat gaa att ttc acc cag cta tac aga 542
72 Cys Phe Glu Leu Glu Asp Ser Asn Glu Ile Phe Thr Gln Leu Tyr Arg
73 145 150 155
75 acc tta ttt tca gtt ata aac aat ggc cac aat cag aaa gtc cat atg 590
76 Thr Leu Phe Ser Val Ile Asn Asn Gly His Asn Gln Lys Val His Met
77 160 165 170 175
79 cac atg gta gac ctt atg agc tct att att tgt gaa ggt gat aca gtg 638
80 His Met Val Asp Leu Met Ser Ser Ile Ile Cys Glu Gly Asp Thr Val
81 180 185 190
83 tct cag gag ctt ttg gat acg gtt tta gta aat ctg gtacct gct cat 686
84 Ser Gln Glu Leu Leu Asp Thr Val Leu Val Asn Leu Val Pro Ala His
85 195 200 205
87 aag aat tta aac aag caa gca tat gat ttg gca aag gct tta ctg aag 734
88 Lys Asn Leu Asn Lys Gln Ala Tyr Asp Leu Ala Lys Ala Leu Leu Lys
89 210 215 220
91 agg aca gct caa gct att gag cca tat att acc act ttt ttt aat cag 782
92 Arg Thr Ala Gln Ala Ile Glu Pro Tyr Ile Thr Thr Phe Phe Asn Gln
93 225 230 235
95 gtt ctg atg ctt ggg aaa aca tct atc agc gat ttg tca gag cat gtc 830
96 Val Leu Met Leu Gly Lys Thr Ser Ile Ser Asp Leu Ser Glu His Val
97 240 245 250 255
99 ttt gac tta att ttg gag ctc tac aat att gat agt cat ttg ctg ctc 878
100 Phe Asp Leu Ile Leu Glu Leu Tyr Asn Ile Asp Ser His Leu Leu Leu
101 260 265 270
103 tct gtt tta ccc cag ctt gaa ttt aaa tta aag agc aat gat aat gag 926
104 Ser Val Leu Pro Gln Leu Glu Phe Lys Leu Lys Ser Asn Asp Asn Glu
105 275 280 285
107 gag cgc cta caa gtt gtt aaa cta ctg gca aaa atg ttt ggg gca aag 974
108 Glu Arg Leu Gln Val Val Lys Leu Leu Ala Lys Met Phe Gly Ala Lys
109 290 295 300
111 gat tca gaa ttg gct tct caa aac aag cca ctt tgg cag tgc tac ttg 1022
112 Asp Ser Glu Leu Ala Ser Gln Asn Lys Pro Leu Trp Gln Cys Tyr Leu
113 305 310 315
115 ggc agg ttt aat gat atc cat gta cca atc cgc ctg gaa tgt gtg aaa 1070
116 Gly Arg Phe Asn Asp Ile His Val Pro Ile Arg Leu Glu Cys Val Lys
117 320 325 330 335
119 ttt gct agc cat tgt ctc atg aac cat cct gat tta gca aaa gac tta 1118
120 Phe Ala Ser His Cys Leu Met Asn His Pro Asp Leu Ala Lys Asp Leu
121 340 345 350
123 aca gag tat ctt aaa gtg agg tca cat gac cct gag gaa gct att aga 1166
124 Thr Glu Tyr Leu Lys Val Arg Ser His Asp Pro Glu Glu Ala Ile Arg
125 355 360 365
127 cat gat gtt att gtg tca ata gtt aca gct gct aaa aag gat att ctt 1214

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128 His Asp Val Ile Val Ser Ile Val Thr Ala Ala Lys Lys Asp Ile Leu
129          370          375          380
131 ctg gtc aat gat cac tta ctt aat ttt gtg aga gag aga aca tta gac 1262
132 Leu Val Asn Asp His Leu Leu Asn Phe Val Arg Glu Arg Thr Leu Asp
133          385          390          395
135 aaa cga tgg aga gta cgc aaa gaa gcc atg atg gga ctt gcc caa att 1310
136 Lys Arg Trp Arg Val Arg Lys Glu Ala Met Met Gly Leu Ala Gln Ile
137 400          405          410          415
139 tat aag aaa tat gct tta cag tca gca gct gga aaa gat gct gca aaa 1358
140 Tyr Lys Lys Tyr Ala Leu Gln Ser Ala Ala Gly Lys Asp Ala Ala Lys
141          420          425          430
143 cag ata gca tgg atc aaa gac aaa ttg cta cat ata tat tat caa aat 1406
144 Gln Ile Ala Trp Ile Lys Asp Lys Leu Leu His Ile Tyr Tyr Gln Asn
145          435          440          445
147 agt att gat gat cga cta ctt gtt gaa cgg atc ttt gct caa tac atg 1454
148 Ser Ile Asp Asp Arg Leu Leu Val Glu Arg Ile Phe Ala Gln Tyr Met
149          450          455          460
151 gtt cct cac aat tta gaa act aca gaa cgg atg aaa tgc tta tat tac 1502
152 Val Pro His Asn Leu Glu Thr Thr Glu Arg Met Lys Cys Leu Tyr Tyr
153          465          470          475
155 ttg tat gcc aca ctg gat tta aat gct gtg aaa gca ttg aat gaa atg 1550
156 Leu Tyr Ala Thr Leu Asp Leu Asn Ala Val Lys Ala Leu Asn Glu Met
157 480          485          490          495
159 tgg aaa tgt caa aat ctg ctc cga cat caa gta aag gat ttg ctt gac 1598
160 Trp Lys Cys Gln Asn Leu Leu Arg His Gln Val Lys Asp Leu Leu Asp
161          500          505          510
163 ttg att aag caa ccc aaa aca gat gcc agt gtc aag gcc ata ttt tca 1646
164 Leu Ile Lys Gln Pro Lys Thr Asp Ala Ser Val Lys Ala Ile Phe Ser
165          515          520          525
167 aaa gtg atg gtt att aca aga aat tta cct gat cct ggt aag gct cag 1694
168 Lys Val Met Val Ile Thr Arg Asn Leu Pro Asp Pro Gly Lys Ala Gln
169          530          535          540
172 gat ttc atg aag aaa ttc aca cag gtg tta gaa gat gat gag aaa ata 1742
173 Asp Phe Met Lys Lys Phe Thr Gln Val Leu Glu Asp Asp Glu Lys Ile
174          545          550          555
176 aga aag cag tta gaa gta ctt gtt agt cca aca tgc tcc tgc aag cag 1790
177 Arg Lys Gln Leu Glu Val Leu Val Ser Pro Thr Cys Ser Cys Lys Gln
178 560          565          570          575
180 gct gaa ggt tgt gtg cgt gaa ata act aag aag ttg ggc aac ccc aaa 1838
181 Ala Glu Gly Cys Val Arg Glu Ile Thr Lys Lys Leu Gly Asn Pro Lys
182          580          585          590
184 cag cct aca aat cct ttc ctg gaa atg atc aag ttt ctc ttg gag agg 1886
185 Gln Pro Thr Asn Pro Phe Leu Glu Met Ile Lys Phe Leu Leu Glu Arg
186          595          600          605
188 ata gca cct gtg cac ata gat acc gaa tct atc agt gct ctt att aaa 1934
189 Ile Ala Pro Val His Ile Asp Thr Glu Ser Ile Ser Ala Leu Ile Lys
190          610          615          620
192 caa gtg aac aaa tca ata gat gga aca gca gat gat gaa gat gag ggt 1982
193 Gln Val Asn Lys Ser Ile Asp Gly Thr Ala Asp Asp Glu Asp Glu Gly

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194	625	630	635	
196	gtt cca act gat caa gcc atc aga gca ggt ctt gaa ctg ctt aag gta	2030		
197	Val Pro Thr Asp Gln Ala Ile Arg Ala Gly Leu Glu Leu Leu Lys Val			
198	640 645 650 655			
200	ctc tca ttt aca cat ccc atc tca ttt cat tct gct gaa aca ttt gaa	2078		
201	Leu Ser Phe Thr His Pro Ile Ser Phe His Ser Ala Glu Thr Phe Glu			
202	660 665 670			
204	tca tta ctg gct tgt ctg aaa atg gat gat gaa aaa gta gca gaa gct	2126		
205	Ser Leu Leu Ala Cys Leu Lys Met Asp Asp Glu Lys Val Ala Glu Ala			
206	675 680 685			
208	gca cta caa att ttc aaa aac aca gga agc aaa att gaa gag gat ttt	2174		
209	Ala Leu Gln Ile Phe Lys Asn Thr Gly Ser Lys Ile Glu Glu Asp Phe			
210	690 695 700			
212	cca cac atc aga tca gcc ttg ctt cct gtt tta cat cac aaa tct aaa	2222		
213	Pro His Ile Arg Ser Ala Leu Pro Val Leu His His Lys Ser Lys			
214	705 710 715			
216	aaa gga ccc ccc cgt caa gcc aaa tat gcc att cat tgt atc cat gcg	2270		
217	Lys Gly Pro Pro Arg Gln Ala Lys Tyr Ala Ile His Cys Ile His Ala			
218	720 725 730 735			
220	ata ttt tct agt aaa gag acc cag ttt gca cag ata ttt gag cct ctg	2318		
221	Ile Phe Ser Ser Lys Glu Thr Gln Phe Ala Gln Ile Phe Glu Pro Leu			
222	740 745 750			
224	cat aag agc cta gat cca agc aac ctg gaa cat ctc ata aca cca ttg	2366		
225	His Lys Ser Leu Asp Pro Ser Asn Leu Glu His Leu Ile Thr Pro Leu			
226	755 760 765			
229	gtt act att ggt cat att gct ctc ctt gca cct gat caa ttt gct gct	2414		
230	Val Thr Ile Gly His Ile Ala Leu Leu Ala Pro Asp Gln Phe Ala Ala			
231	770 775 780			
233	cct tgg aaa tct tgg gta gct act ttc att gtg aaa gat ctt ctc atg	2462		
234	Pro Trp Lys Ser Trp Val Ala Thr Phe Ile Val Lys Asp Leu Leu Met			
235	785 790 795			
237	aat gat cgg ctt cca ggg aaa aag aca act aaa ctt tgg gtt cca gat	2510		
238	Asn Asp Arg Leu Pro Gly Lys Lys Thr Thr Lys Leu Trp Val Pro Asp			
239	800 805 810 815			
241	gaa gaa gta tct cct gag aca atg gtc aaa att cag gct att aaa atg	2558		
242	Glu Glu Val Ser Pro Glu Thr Met Val Lys Ile Gln Ala Ile Lys Met			
243	820 825 830			
245	atg gtt cga tgg cta ctt gga atg aaa aat aat cac agt aaa tca gga	2606		
246	Met Val Arg Trp Leu Leu Gly Met Lys Asn Asn His Ser Lys Ser Gly			
247	835 840 845			
249	act tct acc tta aga ttg cta aca aca ata ttg cat agt gat gga gac	2654		
250	Thr Ser Thr Leu Arg Leu Leu Thr Thr Ile Leu His Ser Asp Gly Asp			
251	850 855 860			
253	ttg aca gaa cag ggg aaa att agt aaa cca gat atg tca cgt ctg aga	2702		
254	Leu Thr Glu Gln Gly Lys Ile Ser Lys Pro Asp Met Ser Arg Leu Arg			
255	865 870 875			
257	ctt gct gct ggg agt gct att gtg aag ctg gca caa gaa ccc tgt tac	2750		
258	Leu Ala Ala Gly Ser Ala Ile Val Lys Leu Ala Gln Glu Pro Cys Tyr			
259	880 885 890 895			

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261 cat gaa atc atc aca tta gaa caa tat cag cta tgt gca tta gct atc 2798
262 His Glu Ile Ile Thr Leu Glu Gln Tyr Gln Leu Cys Ala Leu Ala Ile
263          900          905          910
265 aac gat gaa tgc tat caa gta aga caa gtg ttt gcc cag aaa ctt cac 2846
266 Asn Asp Glu Cys Tyr Gln Val Arg Gln Val Phe Ala Gln Lys Leu His
267          915          920          925
269 aaa ggc ctt tcc cgt tta cgg ctt cca ctt gag tat atg gca atc tgt 2894
270 Lys Gly Leu Ser Arg Leu Arg Leu Pro Leu Glu Tyr Met Ala Ile Cys
271          930          935          940
273 gcc ctt tgt gca aaa gat cct gta aag gag aga aga gct cat gct agg 2942
274 Ala Leu Cys Ala Lys Asp Pro Val Lys Glu Arg Arg Ala His Ala Arg
275          945          950          955
277 caa tgt ttg gtg aaa aat ata aat gta agg cgg gag tat ctg aag cag 2990
278 Gln Cys Leu Val Lys Asn Ile Asn Val Arg Arg Glu Tyr Leu Lys Gln
279 960          965          970          975
281 cat gca gct gtt agt gaa aaa tta ttg tct ctt cta ccagag tat gtt 3038
282 His Ala Ala Val Ser Glu Lys Leu Leu Ser Leu Leu Pro Glu Tyr Val
283          980          985          990
286 gtt cca tat aca att cac ctt ttg gca cat gac cca gat tat gtc aaa 3086
287 Val Pro Tyr Thr Ile His Leu Leu Ala His Asp Pro Asp Tyr Val Lys
288          995          1000          1005
290 gta cag gat att gaa caa ctt aaa gat gtt aaa gaa tgt ctt tgg ttt 3134
291 Val Gln Asp Ile Glu Gln Leu Lys Asp Val Lys Glu Cys Leu Trp Phe
292          1010          1015          1020
294 gtt ctg gaa ata tta atg gct aaa aat gaa aat aac agt cac gct ttt 3182
295 Val Leu Glu Ile Leu Met Ala Lys Asn Glu Asn Asn Ser His Ala Phe
296          1025          1030          1035
298 atc aga aag atg gta gaa aat att aaa caa aca aaa gat gcc caa gga 3230
299 Ile Arg Lys Met Val Glu Asn Ile Lys Gln Thr Lys Asp Ala Gln Gly
300 1040          1045          1050          1055
302 cca gat gat gca aaa atg aat gaa aaa ctg tac act gtg tgt gat gtt 3278
303 Pro Asp Asp Ala Lys Met Asn Glu Lys Leu Tyr Thr Val Cys Asp Val
304          1060          1065          1070
306 gcc atg aat atc atc atg tca aag agt act aca tac agt ttg gaa tct 3326
307 Ala Met Asn Ile Ile Met Ser Lys Ser Thr Thr Tyr Ser Leu Glu Ser
308          1075          1080          1085
310 cct aaa gac ccg gta cta cca gct cgt ttc ttc act caa cct gac aag 3374
311 Pro Lys Asp Pro Val Leu Pro Ala Arg Phe Phe Thr Gln Pro Asp Lys
312          1090          1095          1100
314 aat ttc agt aac acc aaa aat tat ctg cct cct gaa atg aaa tca ttt 3422
315 Asn Phe Ser Asn Thr Lys Asn Tyr Leu Pro Pro Glu Met Lys Ser Phe
316          1105          1110          1115
318 ttc act cct gga aaa cct aaa aca acc aat gtt cta gga gct gtt aac 3470
319 Phe Thr Pro Gly Lys Pro Lys Thr Thr Asn Val Leu Gly Ala Val Asn
320 1120          1125          1130          1135
322 aag cca ctt tca tca gca ggc aag caa tct cag acc aaa tca tca cga 3518
323 Lys Pro Leu Ser Ser Ala Gly Lys Gln Ser Gln Thr Lys Ser Ser Arg
324          1140          1145          1150
326 atg gaa act gta agc aat gca agc agc agc tca aat cca agc tct cct 3566

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RAW SEQUENCE LISTING ERROR SUMMARY
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Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

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VERIFICATION SUMMARY

DATE: 01/04/2005

PATENT APPLICATION: US/09/512,581D

TIME: 17:45:25

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01042005\I512581D.raw



IFW16

RAW SEQUENCE LISTING

DATE: 01/04/2005

PATENT APPLICATION: US/09/512,581D

TIME: 10:00:22

Input Set : A:\34724-026US.txt

Output Set: N:\CRF4\01042005\I512581D.raw

3 <110> APPLICANT: Soto, Ana M.
 4 Sonnenschein, Carlos
 5 Geck, Peter
 6 Szelei, Jozsef
 8 <120> TITLE OF INVENTION: NOVEL ANDROGEN-INDUCED SUPPRESSOR OF CELL PROLIFERATION AND
 USES
 9 THEREOF
 11 <130> FILE REFERENCE: 34724-026
 13 <140> CURRENT APPLICATION NUMBER: US 09/512,581D
 14 <141> CURRENT FILING DATE: 2000-02-24
 16 <150> PRIOR APPLICATION NUMBER: US 60/121,461
 17 <151> PRIOR FILING DATE: 1999-02-24
 19 <160> NUMBER OF SEQ ID NOS: 72
 21 <170> SOFTWARE: PatentIn version 3.3

ERRORED SEQUENCES

2232 <210> SEQ ID NO: 72
 2233 <211> LENGTH: 13
 2234 <212> TYPE: DNA
 2235 <213> ORGANISM: Homo sapiens
 2237 <400> SEQUENCE: 72
 2238 ctttcctttt aag
 E--> 2241 40

Does Not Comply
 Corrected Diskette Needed

13

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/512,581D

DATE: 01/04/2005
TIME: 10:00:24

Input Set : A:\34724-026US.txt
Output Set: N:\CRF4\01042005\I512581D.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/512,581DDATE: 01/04/2005
TIME: 10:00:24

Input Set : A:\34724-026US.txt

Output Set: N:\CRF4\01042005\I512581D.raw

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Seq#:3; Line(s) 769,770,771,772,773,774,775,776,777,778,779,780,781,782,783
Seq#:3; Line(s) 784,785,786,787,788,789,790,791,792,793,794,795,796,797,798

VERIFICATION SUMMARY

DATE: 01/04/2005

PATENT APPLICATION: US/09/512,581D

TIME: 10:00:24

Input Set : A:\34724-026US.txt

Output Set: N:\CRF4\01042005\I512581D.raw

L:2241 M:254 E: No. of Bases conflict, this line has no nucleotides.